Fig. 1

PANEL A

```
1  ggtacctggn tggccaagaa gttgcgnant ttgtntggna gagtggtaag cagtggggtg
61 gcaaacagac ctggagcaat tgttaccaca cggatgccta taggagcnag atct
```
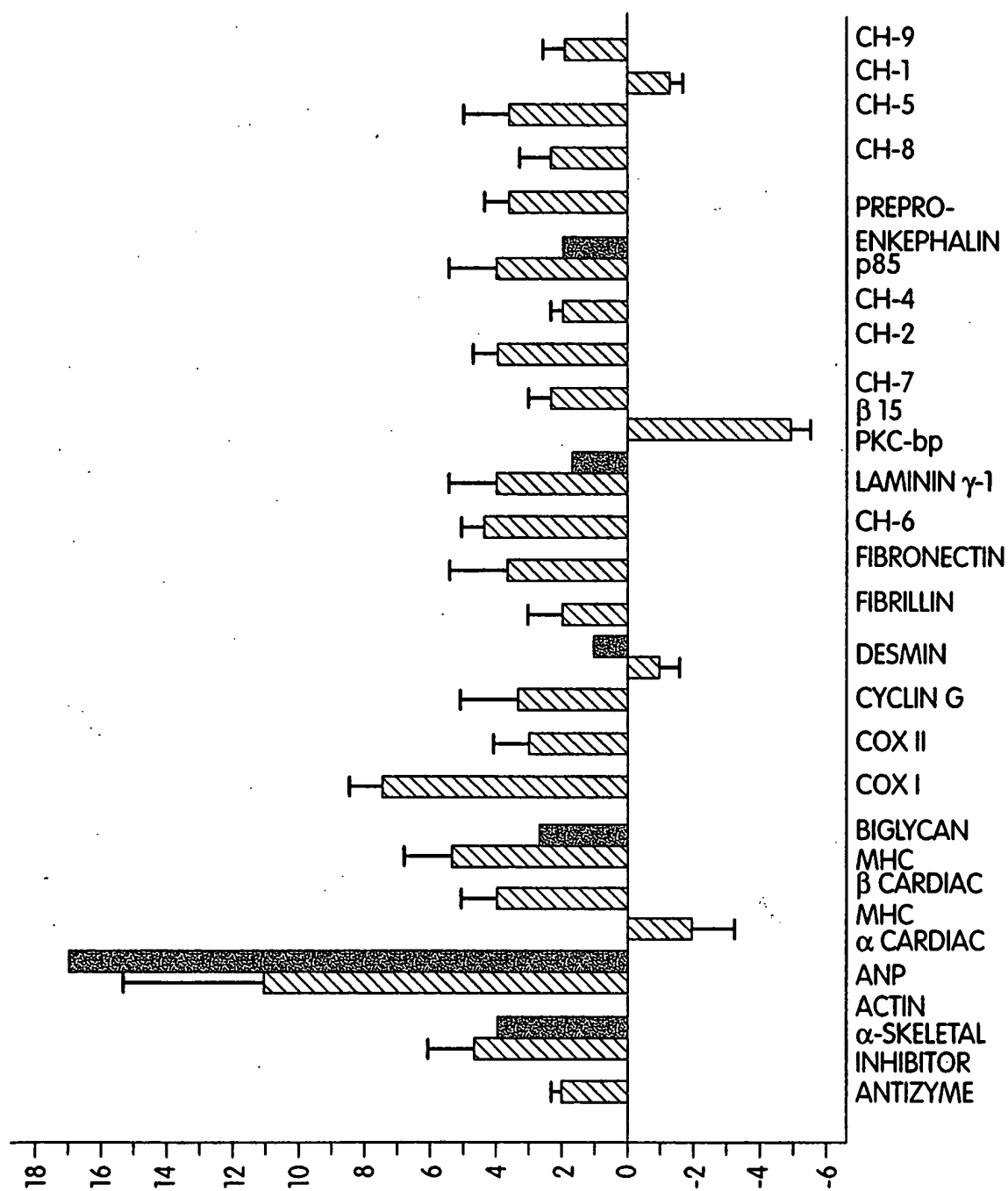
PANEL B

```
QUERY: 114 AGATCTNGCTCCTATAGGCATCCGTGTGGTAACAATTGCTCCAGGTCTCGTTTGCCACCCC 55
               ||||| ||||| ||||||||||||||||||||||||| ||||| || |||||||||||||
SBJCT: 665 AGATCTGGCTCCTACAGGCATCCGTGTGGTAACAATTGCGCCAGGTTTGTTTGCCACCCC 724

QUERY:  54 ACTGCTTACCACTCTNCCANACAAANTNCGCAACTTCTTGGCCANCCAGGTACC 1
               |||||||||| || ||| ||| | ||| || | ||||||||||| |||||||
SBJCT: 725 ACTGCTTACCACCCTTCCAGAGAAAGTGCGAAACTTCTTGGCCAGCCAGGTACC 778
```

PANEL C

```
QUERY: 113 GATCTNGCTCCTATAGGCATCCGTGTGGTAACAATTGCTCCAGGTCTCGTTTGCCACCCCA 54
               ||||| ||||| ||||| |||| || ||| | ||||| |||||||||||||| |||||||
SBJCT: 568 GATCTGGCTCCCCATAGGTATCCGGGTGATGACCATTGCCCCCAGGTCTCGTTTGGCACCCCA 627

QUERY:  53 CTGCTTACCACTCTNCCANACAAANTNCGCAACTTCTTGGCCANCCAGGTACC 1
               |||||||| || ||| || ||| | ||| || |||||||||||| ||| || ||
SBJCT: 628 CTGCTGACCAGCCTCCCAGAGAAAGTGTGCAACTTCTTGGCCAGCCAAGTGCC 680
```

Fig. 2

PANEL A

```
  1 rgatccaggg aatcctgcag ttccaggagg accaggggga cctggttgcc cgtcactgcc
 61 ccgagcacca tcattgcctc gagcacctgc ggctccagga agacctggtc gtcctcgctc
121 accaggagcc cctctgggac ccatggggcc aggagctccg ttgtctcccg gaagaccgtt
181 ttcacccttc aatccagg
```

PANEL B

```
QUERY:  197 CCTGGGATTGAAGGGGTGAAAAACGGTCTTCCGGGAGACAACGGAGCTCCTGGCCCCATGGGT 138
                ||||||| | ||||||  ||||| | |||||| ||||||||||||||||||||||||||||||
SBJCT:  857 CCTGGACTGAAGGGGTGAAAAATGTTCTTCCAGGAGACAACGGAGCTCCTGGCCCCATGGGT 916

QUERY:  137 CCCAGAGGGGGCTCCTGGTGAGCGAGGACGACCAGTCTTCCTGGAGCCGCAGGTGCTCGA 78
                || | ||||||||||||||||||||||||||||||||| |||||||||||||||||||||
SBJCT:  917 CCTAGAGGGGGCTCCTGGTGAGCGAGGACGACCAGGCCTTCCTGGAGCTGCAGGTGCTCGA 976

QUERY:   77 GGCAATGATGGTGCTCGGGGGCAGTGACGGGGCAACCAGTCCCCCTGGTCCTCCTGGAACT 18
                ||||||||||||||||||| ||||| ||||| ||||||||| |||||| || ||||||||
SBJCT:  977 GGCAATGATGATGGTGCTCGGGGGCAGTGATGGGCAGTGATGGGCAACCTGGTCCCCCCTGGCCCTCCTGGAACT 1036

QUERY:   17 GCAGGATTCCCTGGATC 1
                ||||||||||||||||||
SBJCT: 1037 GCAGGATTCCCTGGATC 1053
```

Fig. 3

PANEL A

```
  1  tccggagtgg acagccagta ggagtagtcg ttcctggagg cgaagttgca gacgttgttg
 61  atgttgcaga agaggaaggg catgtggctg aacttgcgca gacagctgcc agccgtaccc
121  aagtcctgac catggcccg  ctcgtttcct tggacataga gcagagagta cccatggtaa
181  agaattttgg tccctggggg acacagcggg tcatcctcacn gtctgactat gcctggtcac
241  aaggaagcca tggtccacag atggggtacc
```

PANEL B

```
QUERY:  270  GGTACCCCATCTGTGTGGACCATGGCTTCCTTGTGACCAGGCATAGTCAGACNGTGAGATGA  211
SBJCT: 4443  GGTACCCCATCTGTGTGGACCATGGCTTCCTTGTGACCAGGCATAGTCAGAC    AGATGA
             GGTACCCCATCTGTGTGGACCATGGCTTCCTTGTGACCAGGCATAGTCAGACAAC-AGATGA  4501

QUERY:  210  CCCGCTGTGTCCCCAGGGACCAAAATTCTTACCATGGTACTCTCTGCTCTATGTCCA  151
SBJCT: 4502  CCC CTGTGTCCCCAGGGACCAAAATTCTTACCATGG TACTCTCTGCTCTATGTCCA
             CCCACTGTGTCCCCAGGGACCAAAATTCTTACCATGGATACTCTCTGCTCTATGTCCA  4561

QUERY:  150  AGGAAACGAGCGGGCCCATGGTCAGGACTTGGGTACGGCTGGCAGCTGTCTGCGCAAGTT  91
SBJCT: 4562  AGG AACGAGCG GCCCA GG CAGGACTTGGGTACGGCTGGCAGCTG CTGCG AAGTT
             AGGCAACGAGCGGTGCCCACGGGCAGGACTTGGGTACGGCTGGCAGCTGCCTGCGTAAGTT  4621

QUERY:   90  CAGCACCATGCCCTTCCTCTCTTCTGCAACATCAACAACGTCTGCAACTTCGCCTCCAGGAA  31
SBJCT: 4622  CAGCACCATGCCCTT CTCTTCTGCAACATCAACAACGTCTGCAACTTCGCCTCCAGGAA
             CAGCACCATGCCCTTTCTCTTCTGCAACATCAACAACGTCTGCAACTTCGCCTCCAGGAA  4681

QUERY:   30  CGACTACTCCTACTGGCTGTCCACTCCGGA  1
SBJCT: 4682  CGACTACTC TACTGGCTGTCCAC CC GA
             CGACTACTCTTACTGGCTGTCCACGCCAGA  4711
```

Fig. 4

PANEL A

```
  1 ggtaccttcn atttgttccc atgctatcnn atccntaagg atgccctggt ttcccagcca
 61 ncnnagtgtc tgcacccngn aggattgcct gctgnctntn cnntgacttt tctgttccgg
121 a
```

PANEL B

```
QUERY:    1  GGTACCTTCNATTTGTTCCCATGCTATCNNATCCNTAAGGATGCCCTGGTTTCCCAGCCA   60
             ||||||||| ||||||||||||||||| || ||| ||  ||||||| ||||||||||||||
SBJCT:  687  GGTACCTTCAAATGTGTTCCATGTTCCATGTTACCAACTCCATAAAGATGCCCTGGTTTCCCAGCCA  746

QUERY:   61  NCNNAGTGTCTGCACCCNGNAGGATTGCCTGCTGNCTNTNCNNTGACTTTTCTGTTCCGG  120
              ||||||||||| ||||||| || |||||||| ||   ||  ||||||| |||||||||||
SBJCT:  747  ACCAGGTACTTGCACCCAGAAGGATTGCCCTCCGACTACACAATCAGTTTTCTATTCCGG  806

QUERY:  121  A  121
             |
SBJCT:  807  A  807
```

Fig. 5

PANEL A

```
 1   yggccacggc ggcctgcggg gcntnancgg gtttcctca gggcaaatga tataaggctc
61   ggtacc
```

PANEL B

```
QUERY:   1   GGCCACGGCGGGCCTGCGGGGGCN-TNANCGGGTTTTCCTCAGGGCAAATGATAT-AAGGCT  58
             GGCCACGGCGG CT CG GGC T   CGGGTTTT TCAGG CAAATGAT   AAGG T
SBJCT: 186   GGCCACGGCGGGTCTCCGAGGCTATCTACGGGGTTTTTTCAGGACAAATGATGCGGAAGGGT 245

QUERY:  59   CGGTAC  64
             GGTAC
SBJCT: 246   -GGTAC 250
```

Fig. 6

Patent Application for: METHOD OF DETECTING CARDIAC HYPERTROPHY THROUGH PROBE HYBRIDIZATION
AND GENE EXPRESSION ANALYSIS
Inventors: Shimkets et al.
Attorney Docket No. 09800080-0174

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PANEL A

```
  1  gtgcacacac actatagttt tcctgcttgt ccttnngttc tctctgggag atggacaacc
 61  ctcaaaggca ctgattgntg acattnntag ctctgntcct tactcaggca gccagctcag
121  ccaaggcccg gtccaaggga tcc
```

PANEL B

```
QUERY:  143  GGATCCCTTGGACCGGGCCTTGGCTGAGCTGGCTGCCTGAGTAAGGANCAGAGCTANNAA   84
             GGATCC TTGGACCGGGCCTTGGCTGAGCTGGCTGCCTGAGTAAGGA CA AGC A  AA
SBJCT: 2175  GGATCCTTTGGACCGGGCCTTGGCTGAGCTGGCTGCCTGAGTAAGGACCA-AGCCATCAA  2233

QUERY:   83  TGTCANCAATCAGTGCCTTTGAGGGTTGTCCATCTCCCAGAGAGAACNNAAGGACAAGCA   24
             TGTCA CAATCAGTGCCTTTGAGGGTTGTCCATCTCCCA AGA A C  A GG CAAGCA
SBJCT: 2234  TGTCACCAATCAGTGCCTTTGAGGGTTGTCCATCTCCCAAAGACACATCATATGG-CAAGCA  2292

QUERY:   23  GGAAAACTATAGTGTGTGTGCAC    1
             GGAAAACTAT TGTGTG GC C
SBJCT: 2293  GGAAAACTATGATGTGTGTGCGCGC  2315
```

Fig. 7

PANEL A

```
  1  rgatcccaag tcacagcatt ttcccacgta actcgactct gaggccatag cctatccaca
 61  gcctcctcgt cccctgcacc gcccagtgtc tcactggctg tgttggagac gggaattgca
121  taagctt
```

PANEL B

```
QUERY:    1 RGATCCCAAGTCACAGCATTTTCCCACGTAACTCGACTCTGAGGCCATAGCCTATCCACA   60
            +||||||||||||||||||||||||||||| |||||||||||||||||||||||||||||
SBJCT: 1149 AGATCCCAAGTCACAGCATTTTCCCACGTTACTCGACTCTGAGGCCATAGCCTATCCACA 1208

QUERY:   61 GCCTCCTCGTCCCCTGCACCGCCCAGTGTCTCACTGGCTGTGTTGGAGACGGGAATTGCA  120
            |||||||||||||||||||||||||||||||||||| || |||||| ||||||||||||
SBJCT: 1209 GCCTCCTCGTCCCCTGCACCGCCCAGTGTCTCACTGGCTGTGTTGGAAACGGGAATTGCA 1268

QUERY:  121 TAAGCTT  127
            |||||||
SBJCT: 1269 TAAGCTT 1275
```

Fig. 8

PANEL A

```
  1  aagcttgcac agatcaaaag aaatggaacc gtgtggggac aaggcaaata aaaaaactca
 61  cggtgcnatt ctcnncataa agcgaaacgg tttaaatgca gcagtgtgan ttcttcccan
121  ttccttctct gggatttcag gggatcc
```

PANEL B

```
QUERY:  147  GGATCCCCTGAAATCCCAGAGAAGGAANTCACACTGCTGCATTTAAACCG  88
SBJCT: 3254  GGATCCCCTGAAATCCC GAGAAG    TGGGAAGAA TCA ACTG TGCATTTAA  CG
             GGATCCCCTGAAATCCCGGAGAAGAGCCTGGGAAGAA-TCAAACTGATGCATTTAACGCG  3312

QUERY:   87  TTTCGCTTTATGNNGAGAATNGCACCGTGAGTTTTTTATTTGCCTTGTCCCCACACGGT  28
SBJCT:       TT  GCTTTA   GAG AT GCACCGTGAG   T   TAT TG C TGTCCCCACACGGT
       3313  TTCTGCTTTACACAGAGGATCGCACCGTGAGCCGTGCTATCTGTCCTGTCCCCACACGGT  3372

QUERY:   27  TCCATTTCTTTGATCTGTGCAAGCTT  1
SBJCT:       TC  TTTCTTTG TCTGTGCAAGCTT
       3373  TCTGTTTCTTTGGTCTGTGCAAGCTT  3399
```

Fig. 9

Patent Application for: METHOD OF DETECTING CARDIAC HYPERTROPHY THROUGH PROBE HYBRIDIZATION
AND GENE EXPRESSION ANALYSIS
Inventors: Shimkets et al.
Attorney Docket No. 09800080-0174

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PANEL A

```
  1  gtgcacggac tgnaggctgt gctcgggcca gtggtgactg catttgccac aggactcatt
 61  tactgccacg ctctgcctct ganggtnntc cangtncnnn annanntnan nggtnanntn
121  ntncaaatnt tncaactncn tnaaggtnaa ngggnctggg ctncaagaga acgtanctgg
181  ttttggtttt gagatggtgg aggcagtggg tgctgcttct cttgaactag gggcttctcc
241  ttctgctgag cataggtgaa gctagc
```

PANEL B

```
QUERY:  265  CTAGCTTCACCTATGCTCAGCAGAAGGAGAAGCCCCTAGTTCAAGAGAAGCAGCACCCAC  206

SBJCT: 1173  CTAGCTTCACCTATGCTCAGCAGAGAAGGAGAAGCCCCTAGTTCAAGAGAAGCAGCAGCACCCAC
             CTAGCTTCACCTATGCTCAGCAGAGAAGGAGAAGCCCCTAGTTCAAGAGAAGCAGCACCCAC  1232

QUERY:  205  TGCCTCCACCATCTCAAAACCAAAACCAGNTACGTTCTCTCTTGNAG-CCCAGNCCCNTTNA  147
             GCCTCCACCA CTCAAAACCAAAACCAG TACG TCTC TG AG CCCAG CCC TT A

SBJCT: 1233  AGCCTCCACCAGCTCAAAACCAAAACCAGGTACGCTCTCCTGGAGGCCCAGGCCCCTTGA  1292

QUERY:  146  CCTTNANGNAGTTGNAANATTTGNANNANNTNACCNNTNANNTNNTNNNGNACNTGGANN  87
             CC T A G AG T  A  A TTG A  A T ACC   A  T  T   G AC TGGA

SBJCT: 1293  CCCTGAAGGAGGTAGAGGAGTTGGAGCAGCTGACCCAGCAGCTGATGCAGGACATGGAAC  1352

QUERY:   86  ACCNTCAGAGGGCAGAGCGTGGCAGTAAATGAGTCCTGTGGCAAATGCAGTCA-CCACTGG  28
             ACC TCAGAGGGCAGAGCGTGGCAGT AATGAGTCCTGTGGCAAATGCA TCA CCACTGG

SBJCT: 1353  ACCCTCAGAGGGCAGAGCGTGGCAGTGAATGAGTCCTGTGGCAAATGCAATCAGCCACTGG  1412

QUERY:   27  CCCGAGCACAGCCTNCAGTCCGTGCAC  1
             CCCG GCACAGCCT C GT CGTGCAC

SBJCT: 1413  CCCGTGCACAGCCTGCCGGTTCGTGCAC  1439
```

Fig. 10